

CURRICULUM VITAE (updated 6/04)
Domenick T. Zero

EDUCATION :

Undergraduate:	St. John's University	B.S.	---
Graduate:	Georgetown University	D.D.S.	---
	School of Dentistry		
Post Doctoral:	University of Rochester	M.S.	---

ACADEMIC APPOINTMENTS

07/01/76	Clinical Instructor, Department of General Dentistry, Eastman Dental Center.
07/01/77	Research Assistant, Department of Caries Research, Eastman Dental Center.
07/01/79	Research Associate, Department of Caries Research, Eastman Dental Center.
07/01/80	Instructor, Department of Dental Research, University of Rochester.
03/01/81	Assistant Chairman, Department of Caries Research, Eastman Dental Center.
07/01/81	Assistant Professor, Department of Dental Research, University of Rochester.
08/10/81	Assistant Professor, Department of General Dentistry, Medical College of Virginia, Virginia Commonwealth University.
07/01/85	Research Associate, Department of Oral Biology, Eastman Dental Center. Clinical Associate, Department of General Dentistry, Eastman Dental Center.
10/01/86	Associate Professor of Clinical Dentistry (adjunct), University of Rochester.
04/01/87	Associate Professor of Dental Research (adjunct), University of Rochester.
07/01/88	Section Head, Intraoral Studies, Department of Oral Biology, Eastman Dental Center.
07/01/90	Senior Research Associate, Eastman Dental Center
07/01/90	Head, Division of Intraoral Studies, Department of Oral Sciences, Eastman Dental Center
09/01/92	Associate Professor, Department of Oral Sciences and Department of General Dentistry, Eastman Dental Center
09/14/94	Associate Director for Research, Eastman Dental Center
01/01/95	Program Director, Oral Sciences
09/10/96	Professor, Oral Sciences and General Dentistry Program, Eastman Dental Center
01/01/98	Professor of Dentistry, University of Rochester Eastman Department of Dentistry
07/01/99	Professor of Preventive and Community Dentistry (with tenure), Indiana University School of Dentistry
07/01/99	Director of the Oral Health Research Institute
09/15/99	Chairman, Department of Preventive and Community Dentistry, Indiana University School of Dentistry
08/01/02	Associate Dean for Research, Indiana University School of Dentistry

OTHER APPOINTMENTS AND PROFESSIONAL CONSULTANTSHIPS

1977-1981	Administrator and Clinical Supervisor of Dental Care for Adult Handicapped Patients, Department of General Dentistry, Eastman Dental Center.
1980-1981	Administrator and Clinical Supervisor for the Supplemental Practice Program, Department of General Dentistry, Eastman Dental Center.
1986 - 1991	Dairy Council Inc., Advisory Committee,
1991 - 1995	National Dairy Council, Visiting Professorship in Nutrition Speakers List

1992 - 1996	Scientific Advisor to the International Life Sciences Institute, North America Oral Health Committee
1997 - 1999	Dental Advisory Board of the Gatorade Sports Science Institute
1999 -	CPP-ACP Scientific Advisory Board of Bonlac Foods Limited
2002-2004	Consultant, Dental Products Panel of the Medical Devices Advisory Committee, Center for Devices and Radiological Health, Food and Drug Administration
2002-	Member, National Institute of Dental and Craniofacial Research, Caries Technical Advisory Panel
2004-	Member, Dental Products Panel of the Medical Devices Advisory Committee, Food and Drug Administration
2004-	Member, Expert Panel on School-based Dental Sealant Programs, Center of Disease Control and Prevention
2004	Member, Marion County Oral Health Task Force

PROFESSIONAL ORGANIZATIONS

Scientific and Professional

International Association for Dental Research (IADR)
 American Association for Dental Research (AADR)
 European Organization for Caries Research (ORCA)
 American Dental Association
 American Dental Education Association

Honorary

Omicron Kappa Upsilon Dental Fraternity
 Pierre Fauchard Academy
 American College of Dentists

HONORS AND AWARDS:

Graduate Georgetown University Dental School cum laude
 International College of Dentists Award for the Most Professional Growth and Development during Four Years of Dental Study
 Alpha Omega Scholarship Rating for the Highest Scholastic Standing Four Years of Dental Study
 Dr. Morris Horowitz Memorial Prize for Scholastic Achievement
 Z. Bernard Lloyd Memorial Award for Outstanding Achievement in Orthodontics
 William Brown Ingersoll Endodontics Award for Outstanding Scholarship
 --- National Research Service Award
 --- Michael G. Buonocore Prize - AADR Rochester Chapter

TEACHING ASSIGNMENTS:

- 1. Virginia Commonwealth University, Medical College of Virginia, 110 dental students**
Cariology Course - Course director and principle lecturer 1982-1984, 19 lecture hours covering the epidemiology, etiology, diagnosis and prevention of dental caries. Prepared a complete course syllabus. Lecture topics: Epidemiology of Caries; Etiology of Caries: Caries Theories/ Time; Etiology of Caries: Host Factors – Teeth; Etiology of Caries: Microbiological Factors I & II; Etiology of Caries: Host Factors – Saliva; Etiology of Caries: Dietary Factors; Physical Chemistry of Caries; Caries Diagnosis and Treatment Planning; Caries Research; Clinical Cariology: Special Situations; Caries Prevention; Caries Prevention: Plaque Control – Chemical; Caries Prevention: Dietary Measures; Fluoride: Overview; Fluoride: Biochemistry

Pre-Clinical Laboratory - Occlusion Course Instructor, 1982 - 1984

Clinical Instructor in the Clinical Diagnostic and Skill Development Clinic, Preventive Clinic, Dental Auxiliary Utilization Clinic, 1983 - 1985.

- 2. Virginia Commonwealth University Graduate Students**

Course	Topic	Date
Basic Science Lecture Series - Microbiology Section	Dental Plaque Ecology	1983 1984 1985
"	Microbiology of Dental Caries	1983 1984 1985

- 3. Eastman Dental Center – Dental Postgraduate Students and Residents**

Course	Topic	Date
Scientific Basis of Dental Practice	Carbohydrates	November 15, 1977
General Practice Presentation Series	Faculty Advisor for Residents	1978 - 1981
General Dentistry Summer Lecture Series	Dentistry for the Handicapped	August 28, 1978
General Dentistry Summer Lecture Series	Re-evaluation of the Routine Prophylaxis	August 18, 1978
Dental Caries	Pellicle-Enamel Interface	November 3, 1978
Controversies in Dentistry Series	Faculty Advisor for Residents	1979 - 1981
General Dentistry Summer Lecture Series	Dental Care for the Handicapped	July 5, 1979
General Dentistry Summer Lecture Series	Re-evaluation of the Routine Prophylaxis	July 13, 1979
Science of the Oral Environment	Dietary Effects on Plaque pH	September 25, 1979
Science of the Oral Environment	Structure of Acquired Pellicle	January 15, 1980
Science of the Oral Environment	The Role of Acquired Pellicle in Dental Disease	January 22, 1980
Scientific Basis of Dental Practice	Sound and Aerosols: the use and dangers of the high-speed drill	April 9, 1980

General Dentistry Case Presentation Series	Group Leader	1980 - 1981
General Dentistry Summer Lecture Series	Opportunities for the Handicapped at EDC	July 22, 1980
General Dentistry Summer Lecture Series	Re-evaluation of Routine Prophylaxis	July 29, 1980
Scientific Basis of Preventive Dentistry	Evaluating the Cariogenicity of Foods	March 17, 1981
General Dentistry Summer Lecture Series	Method of Caries Diagnosis and Treatment Planning	August 1985 - 1987
General Dentistry Summer Lecture Series	Role of Fluoride in Caries Prevention	August 1985 - 1987
General Dentistry Case Presentation Series	Group Leader	1985 - 1987
General Practice Presentation Series	Faculty Advisor for Residents	1985 - 1987 1990-1999
General Dentistry Prevention Course	Seminar Organizer and Leader	1986, 1987
General Dentistry Topic of the Week	Seminar Organizer and Leader	1986, 1987
Chemical Aspects of Dental Caries	Extracellular Polymers and Caries	December 9, 1986
Current Concepts in Pediatric Dentistry	Microbial Virulence Factors Involved in Caries	May 18, 1987; April 25, 1988; February 13, 1989
Chemical Aspects of Dental Caries	Clinical Aspects of Remineralization	April 25, 1989; April 24, 1990; May 14, 1991; April 28, 1992; April 27, 1993; April 29, 1994; April 25, 1995
Chemical Aspects of Dental Caries	Fluoride and Plaque Metabolism	Mar. 30, 1993; April 8, 1994; April 4, 1995
General Dentistry Summer Lecture Series	Prevention I	August 19, 1991; August 5, 1992; July 14, 1993; July 7, 1994; July 19, 1995; August 14, 1996; August 5, 1997
General Dentistry Summer Lecture Series	Prevention II	August 26, 1991; August 12, 1992; July 21, 1993;

		July 14, 1994; July 27, 1995; August 21, 1996; August 19, 1997
General Dentistry Summer Lecture Series	Research Opportunities	August 18, 1992; August 16, 1995
Current Aspects in Pediatric Dentistry	Research Opportunity in Intraoral Studies	November 12, 1991; October 2, 1992
Scientific Basis of Safe Dental Practice	Fluoride: Dental Uses, Safety, Control	November 26, 1991; September 28, 1993; March 5, 1996; March 17, 1998
General Practice Presentation Series	Course Director and Student Advisor	1991 - 1995
General Practice Presentation Series	Student Advisor	1996-1997
Clinical Aspects of Dental Caries	Course Director	1996- 1999
"	Overview of the Etiology of Dental Caries	January 28, 1997; January 23, 1998; February 2, 1999
"	Caries Diagnosis and Treatment Planning	January 26, 1996; February 4, 1997; January 30, 1998; February 16, 1999
"	Clinical Use of Fluorides	February 9, 1996; February 25, 1997; February 20, 1998; March 16, 1999
"	Role of Diet in Caries Prevention	February 23, 1996; February 11, 1997; February 6, 1998; February 9, 1999
"	Diagnosis and Management of Dental Erosion	April 5, 1996; March 4, 1997; February 27, 1998; April 13 & 20, 1999

4. University of Rochester Graduate Students

Course	Topic	Date
Saliva	Organic Components of Saliva	Oct. 31, 1980
Pharmacology and Therapeutics	Nonsteroidal Anti- Inflammatory Drugs	April 2, 1990; March 2, 1992
Fundamentals of Dental Caries	<i>In situ</i> Caries Models	November 28, 1994; November 27, 1995;

		November 11, 1996; November 10, 1997; November 2, 1998;
"	Enamel, Dentine, Cementum (Chemistry and Structure)	October 9, 1995; September 16, 1996; September 15, 1997; September 14, 1998
"	Histology of Carious Lesions in Enamel	October 9, 1995; September 16, 1996; September 15, 1997; September 14, 1998
"	Enamel De- and Remineralization	November 6, 1995; October 21, 1996; October 20, 1997; October 12, 1998
"	Rational Use of Fluorides	November 6, 1995; October 21, 1996; October 20, 1997; October 12, 1998

5. Indiana University School of Dentistry 100 Dental Students

	<u>Course</u>	<u>Topic</u>	<u>Date</u>
T720	Advanced Restorative Dentistry	Caries Risk Assessment and Prevention	October 31, 2000; September 4, 2001; August 20, 2002 August 19, 2003
"	"	Management of the High Caries Risk Patient	November 14, 2000; September 11, 2001; September 03, 2002 August 26, 2003
T720	GLA Module	Mentor	Spring & Fall 2000 Spring & Fall 2001 Spring & Fall 2002 Spring & Fall 2003 Spring 2004
T540	Dental Sciences I	Introduction to Dental Caries	November 2, 2001
T562	Oralfacial Biology II	Introduction to Dental Caries	April 12, 2001
		Etiology: Diet	May 1, 2001 April 11, 2002
		Caries Management Diet	May 22, 2001 May 28, 2002
		Diagnosis and Management of Dental Erosion	May 10, 2001 May 23, 2002 May 22, 2003 May 25, 2004

T740	Clinical Sciences III	Clinical Coverage – 4h/week	Fall 2001 Spring 2002 Fall 2002 Spring 2003
T840	Clinical Sciences IV	Clinical Coverage – 4h/week	Fall 2001 Spring 2002 Fall 2002 Spring 2003

6. Indiana University School of Dentistry Graduate Students

	<u>Course</u>	<u>Topic</u>	<u>Date</u>
R956	Current Topics in Oral Biology	Enamel Remineralization Oral Biology of Chewing Gun	October 2 & 6, 2000 Nov 12 & 14, 2001
R959	Graduate Oral Microbiology	Use of In situ Models In Oral Microbiology	January 26, 2001; January 25, 2002 January 24, 2003
R909	Advanced Preventive I	Diet and Caries	September 19, 2000; October 23, 2001 October 15, 2002 October 14, 2003
R910	Advanced Preventive II	Caries Management: Diet Dental Erosion Etiology & Management	November 21, 2000; January 22, 2002 February 13, 2004 April 2, 2002 April 8, 2003
R911	Advanced Preventive III	Acquired Pellicle/Organic Matter In situ Models for Caries Research	October 5, 2001 September 25, 2003

PROFESSIONAL SERVICE:

Reviewer National Institutes of Health/National Institute of Dental and Craniofacial Research (NIH/NIDCR)

1992	Special Outside Reviewer
1993	Member, Special Review Group, Clinical Core Centers for Preventive and Operative Dentistry
1996	Member, Special Emphasis Panel, Program Project Review
1999	Chair, Teleconference Review of R01
2003	Member, Special Emphasis Panel, Teleconference Review of R01
2004	Member, Special Emphasis Panel, Teleconference Review of R21
2004	Member, Special Emphasis Panel, Teleconference Review of R01

Reviewer, Agency for Healthcare Research and Quality (AHRQ)

2002	Invited Temporary Member, Healthcare Technology and Decision Sciences (HCTDS) Standing Study Section
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Reviewer, Health Research Council of New Zealand

2003	Invited Referee
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Reviewer, The Hospital for Sick Children Foundation, Toronto, Canada

2003 Invited Reviewer

Reviewer, Medical Research Council, United Kingdom

2004 External Referee

Contributions to Professional Organizations

1981 - 1983	ADA Health Foundation Institute Food, Nutrition and Dental Health Program, Plaque Resource Group
1985-	Member of the American Association for Dental Research (AADR) National Affairs Committee Cohorts
1988	Scientific Program Chairman, Winter Meeting of the Rochester Chapter of the AADR
1989	Co-chairman, Cariology Session - Demineralization and Remineralization, IADR Meeting.
1990	Poster Summarizer, Cariology Session - Plaque Bacterial Studies, IADR Meeting
1991	Chairman, Cariology Session - Plaque Metabolism and Enamel Surface Chemistry, IADR Meeting
1992-2001	Scientific Advisor for the American Dental Association Council on Scientific Affairs
1992-1995	Secretary/Treasurer - Cariology Research Group of the IADR
1992-1994	Councilor - Rochester Section of the AADR
1993-1996	President - Rochester Section of the AADR
1994	Chairman, Poster Discussion Session: Tooth Hard Tissues and Re/Demineralization <i>In situ</i> . ORCA Congress, Cork, Ireland.
1995	Program Chair - Cariology Group, AADR Annual Meeting, San Antonio, TX
1995-1996	Councilor - Cariology Research Group of the IADR
1996	Chairman - Cariology Section, <i>Streptococcus mutans</i> , Plaque Composition, IADR Annual Meeting, San Francisco, CA
1996-1997	President - Cariology Research Group of the IADR
1996	Member of the IADR E.W. Borrow Memorial Award Committee
1998-1999	Program Chair - Cariology Group, AADR Annual Meeting, Minneapolis MN
1998-1999	Program Chair - Cariology Group, IADR Annual Meeting, Nice, France
1999-2001	Elected Member European Organization for Caries Research (ORCA) Advisory Board
2001	Chairman, Poster Discussion Session: Clinical and Intervention Studies. ORCA Congress, Graz, Austria.
2001-	Elected Council Member, Council on Scientific Affairs, American Dental Association
2001	Reviewer of abstracts for the Cariology Research Group Program, IADR 2002 Meeting
2001	Reviewer of abstracts for the Cariology Research Group Program, IADR 2002 Meeting
2002	Chairman - Cariology Section, Fluoride Treatments, Fluorosis, IADR/AADR Annual Meeting, San Diego, CA

2002-	Delegate, International Standards Organization, ISO 106, Working Group 7, representative for ADA Council on Scientific Affairs
2003	Moderator, Workshop On the Safety of Tooth Bleaching Products, Sponsored by the ADA Council on Scientific Affairs
2003	Councilor – AADR Cariology Research Group Chapter
2003	Reviewer Maynard Hine Award, Indiana Section of the AADR
2003-2004	Vice-Chair, Council of Scientific Affairs, American Dental Association
2004	Member Selection Committee, ADA 2004 Norton M. Ross Award for Excellence in Clinical Research

UNIVERSITY SERVICE:

University of Rochester

1977-1981	Clinical Staff Committee, Eastman Dental Center, 1981 appointed Secretary
1980-1981	Senior Staff Committee, Eastman Dental Center
1982-1985	Curriculum Committee, MCV School of Dentistry; 1983 - coordinator of the subcommittee on quality assurance.
1984-1985	Institutional Research Advisory Committee - Virginia Commonwealth University
1984-1985	Committee on Research, School of Dentistry - Virginia Commonwealth University
1985-1991	Senior Staff Committee, Eastman Dental Center.
1985-1988	Clinical Staff Committee, Eastman Dental Center.
1986-1987	Library Committee, Eastman Dental Center.
1988	Chairman, Scientific Program Committee, Rochester Chapter AADR.
1988	Chairman, Integration Subgroup, Strategic Planning Workshop, Eastman Dental Center.
1989	Awards Committee - Michael G. Buonocore Award, Rochester Chapter AADR.
1989-1990	Eastman Dental Center 75th Anniversary Alumni Awards Committee
1989-1990	Eastman Dental Center 75th Anniversary Research Symposium Planning Committee
1990 - 1991	Chairman, Activities Committee, Eastman Dental Center
1991	Chairman, Part-time Clinical Faculty Award for Excellence in Teaching Committee, Eastman Dental Center
1992	Research Fellowship Committee, Eastman Dental Center
1992-1997	Curriculum Committee, Eastman Dental Center
1992-1997	Geriatric Task Force, Rochester, NY
1992-1993	Total Quality Management Committee, Eastman Dental Center
1992-1995	Chairman, Institutional Safety Committee, Eastman Dental Center
1992-1994	Chairman, Eastman Dental Center Library Committee
1992-1993	EDC/U of R Affiliation Committee Support Group, Eastman Dental Center
1993-1995	Institutional Operations Committee, Eastman Dental Center
1993	Research Working Group - Strategic Planning, Eastman Dental Center
1993-1995	Dental Informatics Committee, Eastman Dental Center
1994-1997	Directors Committee, Eastman Dental Center
1994-1996	Joint Committee on Educational Affairs, University of Rochester, Eastman Dental Center
1995-1997	Senior Faculty Advisory Committee, Eastman Dental Center
1995-1997	Chairman, Research Committee, Eastman Dental Center

1996	Member of the Eastman Dental Center/University of Rochester Dental Management Group
1996-1999	Chairman, Computer/Network Committee, Eastman Dental Center, University of Rochester
1996-1997	Member, TQM Council, Eastman Dental Center
1997-1999	Member, Curriculum Committee, Eastman Department of Dentistry, University of Rochester
1997-1999	Chairman, Evidence Based Practice Task Force, Eastman Department of Dentistry, University of Rochester
1998-1999	Chairman, Clinical Research Advisory Committee, Eastman Department of Dentistry, University of Rochester
1998-1999	Member, Clinical Sciences Research Center Workgroup, University of Rochester Medical Center
1998-1999	Member, Clinical Chiefs Advisory Committee, Eastman Department of Dentistry, University of Rochester
1999	Member, Appointment, Reappointment, Promotion and Tenure Committee, Eastman Department of Dentistry, University of Rochester
1999	Member, Translational Research Search Committee, Eastman Department of Dentistry, University of Rochester

Indiana University

1999-	Member, Executive Committee, Indiana University School of Dentistry
1999-	Member, IUSD Faculty Council
1999-	Member, IUSD Chairs Planning Group
1999-	Member, Research Day Planning Committee, IUSD
1999-2001	Member, Curriculum/Assessment Committee, IUSD
2000	Chair, Search & Screen Committee, Assistant Professor position, Dept. Preventive and Community Dentistry
2000	Chair, Search & Screen Committee, Assistant Professor position, Dept. Preventive and Community Dentistry
2000-	Member, IUSD Research Committee
2001-	Member, Tenure and Promotion Committee, Indiana University School of Dentistry
2001-2003	Member, IUPUI Faculty Council
2001-	Chair, Search & Screen Committee, Department of Oral Biology Chair position
2001	Chair, Search & Screen Committee, Associate Professor position, Dept. Preventive and Community Dentistry
2002	Chair, Search & Screen Committee, Assistant Professor position, Dept. Preventive and Community Dentistry
2002-	Chair, IUSD Research Committee
2002-2003	Member, Biostatistics Task Force, Indiana University School of Medicine
2002-	Member, Council of Associate Deans for Research, IUPUI
2002-	Member, IUSD Administrative Group
2003-	Member, Biostatistics Advisory Committee, Indiana University School of Medicine
2003-	Member, Animal Lab Task Force, Indiana University School of Medicine

OTHER PROFESSIONAL ACTIVITIES

International Activities

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| 1999 | Workshop Session Chair – Modern Methods for Assessing Cariogenicity and Erosion of Foods. Sponsored by the Commonwealth Dental Association, British Dental Association and Leeds University Dental Institute. Hertfordshire, UK. |
| 2000 | Invited by Dr. Youichi Iijima of the Department of Preventive Dentistry at Nagasaki University to participate as a cooperative researcher with Japanese scientists on the project "Establishment of the Standardized Assessment of Low, Non-Cariogenic Foods and Its Application and Popularization". The Japan Foundation for Emergency Medicine funded the two-week visit to Japan, through a program for the Invitation of Foreign Scientists to Japanese Institutes. |
| 2002 | Invited attendee at the International Consensus Workshop on Caries Clinical Trials, Glasgow, Scotland. |
| 2002 | Invited participant, Modern Caries Criteria Development Workshop, sponsored by the Dental Health Services Research Unit, University of Dundee, Dundee, Scotland. |
| 2002 | Invited participant in the 2 nd International Caries Detection and Assessment System Workshop, sponsored by the University of Michigan School of Dentistry, University of Michigan, Ann Arbor, MI. |
| 2003 | Organizer and participant, 3 rd International Caries Detection and Assessment System Workshop, Indiana University School of Dentistry, Indianapolis, IN. |
| 2004 | Invited participant, 4 th International Caries Detection and Assessment System Workshop, sponsored by Department of Cariology, University of Copenhagen, Bornholm, Denmark. |

Invited Conference/Workshop Participation

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| 1990-Sept | Panelist, ADA Consensus Conference on Intraoral Models - Patient Selection, Appliance Design, and Substrates |
| 1990-Sept | Discussion leader, Caries Prevention/Fluoride session, Prevention Revisited Symposium, 75th Anniversary of the Eastman Dental Center |
| 1993-Jan. | Member, Working Group on "Strategies for Improving the Assessment of Fluoride Accumulation in Body Fluids and Tissues" at the "Methods for Assessing Fluoride Accumulation and Effects in the Body" Workshop, sponsored by the NIDR, Bethesda, MD. |
| 1994-Oct. | Conference Chair - Conference on the Future Direction of Dental Postgraduate Education: A Tribute to Basil G. Bibby on His 90th Birthday, Eastman Dental Center, Rochester, NY |
| 1995-Dec | Attended 37th Annual Conference of Dental School Deans on the theme "Thriving in an Emerging Health Care Culture", Boca Raton, FL. |
| 1996-June | Faculty - 1 st Annual International Consensus Conference on Dental Risk Assessment and Disease Management, Toronto Canada. |
| 1996-July | Participated in the 1996 AADS Summer Program - Career Development for Faculty Leaders, Ogunquit, MA. |
| 1996-Dec | Attended 38th Annual Conference of Dental School Deans on the theme "Contemporary Issues in Higher Education Accreditation". |

1999-April	Invited participant in the Research Diagnostic Criteria of Early Childhood Caries Workshop, sponsored by the National Institute of Dental and Craniofacial Research, Health Resources and Services Administration and Health Care Financing Administration, Bethesda, MD.
2001-March	Invited presenter at the NIH/NIDCR Consensus Development Conference on Diagnosis and Management of Dental Caries Throughout Life, Bethesda MD.
2001 - Nov	Attended Putting Science into Practice in Dental Schools, Sponsored NIDCR, ADEA, Bethesda, MD.
2001 - Dec	Attended the Dental, Oral and Craniofacial Technology Forum, Sponsored by NIDCR/FDA, Bethesda, MD.
2002 - Oct	Invited participant at the NIDCR Caries Technical Advisory Panel meeting, held at NIH, Bethesda, MD.
2004 - May	Attended, Methods for Enhancing the Efficacy of Dental/Oral Health Clinical Trials Workshop, Sponsored by NIDCR, Bethesda, MD.

Invited Professional Presentations

1977-Jan	Fixed vs. Removable Prosthodontics for Replacement of Missing Teeth. Rochester Dental Study Club, Rochester, NY
1978-Feb	Is the Routine Prophylaxis Doing More Harm than Good? Rochester Study Club.
1981-Jan	Salivary Factors as Preventive Agents. Rochester Dental Study Club.
1981-Mar	Management of the Handicapped in the Dental Situation. Monroe Community College, Dental Hygiene Department, Rochester, NY
1982-Feb	Etiology of Dental Caries. Veteran's Administration Hospital, Chesterfield, VA.
1982-Dec	Salivary Pellicle and Dental Caries. Dental Caries Course, Eastman Dental Center, Rochester, NY
1983-Oct	The Impact of Reduced Dental Caries on the Profession. Department of General Dentistry, Reunion, Rochester, NY
1985-Jan	Role of Diet in Dental Caries. Veteran's Administration Hospital, Chesterfield, VA.
1985-Feb	Clinical Cariology. Veteran's Administration Hospital, Chesterfield, VA.
1986-April	Preventive Oral Health Care for the Elderly. Geriatric Dentistry Workshop, Eastman Dental Center.
1987-April	Glucan Mediated Demineralization in vivo by <i>S. mutans</i> . Monthly Research Review Meeting, Eastman Dental Center
1987-Oct	Oral Retention of Topical Fluoride and Clinical Efficacy. Monthly Research Review Meeting, Eastman Dental Center.
1988-May	Studies of Caries-Associated Virulence Traits of <i>Streptococcus mutans</i> Using an Intraoral Model. Streptococcal Research Day, University of Rochester, School of Medicine and Dentistry.
1988-June	Oral Retention of Topical Fluoride and Clinical Efficacy. Lakeside Dental Study Club, Rochester, NY
1988-Sept	Oral Retention of Topical Fluoride. Department of Clinical Dentistry, University of Rochester.
1988-Dec	Intraoral Model to Study Dental Caries. Lakeside Dental Study Club, Rochester, NY
1989-Oct	Intraoral Studies. Monthly Research Review Meeting, Eastman Dental Center.
1989-Oct	Fluoride Retention in the Mouth and Caries Prevention. Alpha Omega Fraternity Study Club, Rochester, NY

1990-Feb	Study of Caries Associated Virulence of Mutans Streptococci Using an Intraoral Model. Cariology Center Seminars, University of Rochester.
1990-Feb	Study of Caries Associated Virulence of Mutans Streptococci Using an Intraoral Model. Keynote speaker Winter Meeting of the Rochester Chapter of the AADR.
1990-Apr	The Use of Intraoral Models in Dental Research. International Life Sciences Institute-Nutrition Foundation, Washington, DC
1990-June	Improved intraoral enamel demineralization test caries model. Technological Advances in Intraoral Model Systems Used to Assess Cariogenicity. American Dental Association, Chicago, IL.
1990-July	Latest Understanding of the Mechanism of Action of Fluoride in Caries Prevention. Dental School of the University of Francisco, Marroquin, Guatemala.
1990-Sept	Use of Intraoral Models in Caries Research. Buonocore Memorial Lecture, Apollonia Society, Rochester, NY.
1990-Sept	The Use of the Intraoral Enamel Demineralization Test in Caries Research. American Dental Association Health Foundation, Paffenbarger Center at the National Institute of Standards and Technology, Gaithersburg, MD.
1991-June	Adaptations in Dental Plaque, Cariology for the Nineties Conference. University of Rochester, Rochester, NY.
1991-Nov	The Use of Intraoral Models in Caries Research. Monthly Research Review Meeting, Eastman Dental Center.
1991-Dec	Reflections on General Dentistry. Commencement Speech for the General Dentistry Residents, Eastman Dental Center.
1992-June	Intraoral Caries Models. Symposium on Modern Concepts of Prevention. Leeds Dental Institute, University of Leeds, England.
1992-Oct	The Use of <i>in situ</i> Models to Study Basic and Applied Aspects of Dental Caries. Department of Oral Biology Seminar Series. University at Buffalo, SUNY.
1992-Nov	Evaluation of the Caries-Associated Virulence of <i>Streptococcus mutans</i> using an Intraoral Model. Unilever Research Port Sunlight Laboratory, England.
1993-Jan	Topical Fluorides - Recommendations for Their Proper Use. Rochester Dental Study Club, Rochester, NY.
1993-Apr	Studies at the Eastman Dental Center - Comparison of Model Systems. Impact of Chewing Gum on Dental Health: Expert Review and Update. Sponsored by the Warner-Lambert Company, Summit, NJ.
1993-May	Nutrition and Dental Caries. Continuing Education course for nutritionists and dietitians. Sponsored by the Michigan Dairy Council, Ann Arbor, MI.
1993-May	Dental Caries and Their Relationship to Foods. Applied Nutrition 726 course for 3rd year dental students. The University of Michigan, School of Dentistry, Department of Cariology and General Dentistry, Ann Arbor, MI.
1993-May	Role of Diet in the Etiology and Prevention of Dental Caries. Continuing education course to practicing dentists. Sponsored by the National Dairy Council's Visiting Professorship Program, Ann Arbor, MI.
1993-Oct	Clinical Usefulness of Professionally-applied Topical Fluorides. Blue Shield Dental Advisory Board, Rochester, NY
1993-Oct	Microbiology of Dental Caries. Pediatric Dentistry Seminar Series, University of Connecticut Health Center
1994-March	The Use of Intra-oral Models in Caries Research. Lunch and Learning session at the IADR/AADR, Seattle, WA.

- 1994-March Mechanism of Dental Caries. Intra-oral Models of Caries. Oral Microbial Ecology Course to Graduate Students. School of Dental Medicine, Department of Oral Biology, University of Buffalo, SUNY, Buffalo, NY.
- 1994-June *In situ* Caries Models. Conference on Clinical Aspects of De/Remineralization of Teeth. Rochester, NY.
- 1994-July Biochemical and Microbiological Aspects of Dental Plaque in Occlusal Surfaces. Symposium on the Treatment of Initial Caries Lesions in Occlusal Surfaces. 10th Congresso Odontologico Riograndense, 1st Encontro Gaucha de Odonotlogia Preventia. Sponsored by the Associacao Brasileira de Odontologia, Porto Alegre, Brazil.
- 1994-July 12 hour course on Cariology: Etiology and Prevention. 10th Congresso Odontologico Riograndense, 1st Encontro Gaucha de Odontologia Preventia. Sponsored by the Associacao Brasileira de Odontologia, Porto Alegre, Brazil.
- 1995-March An Overview of Caries Risk Assessment, and Its Potential Utility. Symposium on "Developing Clinical Teaching Methods for Caries Risk Assessment", American Association for Dental Research Meeting, San Antonio, TX.
- 1995-May Update on Fluoride Use in Dentistry. General Dentistry Alumni Reunion, Eastman Dental Center, Rochester, NY.
- 1995-July The Use of *In situ* Models in the Evaluation of Fluoride Dentifrice Products. Colgate Palmolive Company, Piscataway, NJ.
- 1995-Sept Etiology of Dental Erosion - Extrinsic Factors. Workshop on the Etiology, Mechanisms and Implications of Dental Erosion, Sponsored by ILSI Europe and ILSI North America, Limelette, Belgium.
- 1995-Oct. Use of *In situ* Models in the Study of Dental Caries. Division of Oral Biology Seminar Series, Goldman School of Graduate Dentistry, Boston University, MA.
- 1995-Nov Validation of *In situ* Models Revisited! Task Force on Design and Analysis, Inc., Newark, NJ.
- 1996-June The Changing Boundaries of Dental Caries Diagnosis and Intervention. First International Consensus Conference on Dental Risk Assessment and Disease Management, Toronto, Canada.
- 1996-Oct Use of *In situ* Models in Caries Research. Dental Research Seminar Series, University of Medicine and Dentistry of New Jersey, Graduate School of Biomedical Sciences, Newark, NJ.
- 1996-Nov Update on the Clinical use of Fluorides in Dentistry. Incisive Seminars of Rochester, Study Club, Rochester, NY
- 1997-Nov Comparison of Decision Rules for Approving Anticaries Drug Products. Task Force on Design and Analysis, Inc., Newark, NJ.
- 1998-April Overview of Dental Erosion. The Gatorade Company, Gatorade Exercise Physiology Laboratory, Barrington, IL
- 1998-Nov Aetiology of Enamel Erosion - Intrinsic and Extrinsic Factors. Council of Europe Meeting on the topic of "Tooth Wear and Sensitivity", Bristol, England.
- 1999-Feb Overview of the Factors Influencing Topical Fluoride Oral Clearance/Retention. Warner-Lambert Company, Morris Plains, NJ
- 1999-May Caries Detection Using Digital Imaging Fiber-Optic Transillumination (DIFOTI™) - A Preliminary Evaluation. 4th Annual Indiana Conference. Early Detection of Dental Caries II, Indianapolis, IN.
- 1999-Sept Overview of *In situ* Models Used in Dental Research. Seminar Series - Indiana Section of the American Association for Dental Research, Indianapolis, IN.

2000-March	Future Advances in Caries Research Through Clinical Investigations. IADR Symposium: An Agenda for Dental Caries Research in the 21 st Century, Washington DC
2000-May	Overview of Research Capabilities of the Oral Health Research Institute. Warner Lambert Learning Center, Morris Plains, NJ.
2000-June	Oral Factors to Consider that Influence Restorative Treatment. 5 th Annual Indiana Conference. The Changing Practice of Restorative Dentistry, Indianapolis, IN.
2000-Oct	Erosion Research. Martin Curzon Retirement Symposium on Industrial Partnership, Research Direction and Clinical Excellence in the Millennium, Leeds, England, UK.
2000-Nov	Current Concepts in Cariology. A Fluoride and Cariology Symposium sponsored by the Indiana School of Dentistry and The Indiana State Department of Health, Indianapolis, IN.
2000-Dec	Evaluation of the Cariogenicity of Foods Using Various Model Systems. Presented at the meeting of the Advisory Board of the “Establishment of the Standardized Assessment of Low, Non-Cariogenic Foods and Its Application and Popularization” project, Center for Disease Control, Tokyo, Japan.
2000-Dec	Role of Diet in Dental Caries. Presented to 5 th year dental students at Nagasaki University School of Dentistry, Nagasaki, Japan.
2000-Dec	Early Caries Detection and Management. Presented to the faculty of Nagasaki University School of Dentistry, Nagasaki, Japan.
2001-Mar	Clinical Applications and Outcomes of Using Indicators of Risk in Caries Management. Presented at the NIH/NIDCR Consensus Development Conference on Diagnosis and Management of Dental Caries Throughout Life, Bethesda MD.
2001- June	Chewing Gum, Salivary Stimulation and Remineralization. IADR Symposium: Chewing Gum and Oral Health, Chiba, Japan.
2001-Nov	In situ Models [In light of the FDA call for data]. Presented to the NJ Section of AADR, Parsippany, NJ.
2002-Mar	An Overview of In situ Models for Cariogenicity Research. IADR Symposium: In situ Models for the Study of Caries and Erosion, San Diego, CA.
2002-Sept	Mechanism of Action of Fluoride and other Trace Elements, Postgraduate Cariology Course, University of Rochester Medical Center, Rochester, NY.
2002-Nov	Overview of the Dental Caries Process: With Special Emphasis on the Role of Saliva. Presented as part of a CE course – Saliva ...You Can't Do Without It. IUSD Center for Advanced Professional Studies, Indianapolis, IN.
2003-July	Sugars – the arch criminal? Presented at the 50 th Anniversary Congress of the European Organization of Caries Research (ORCA): Cariology in the 21 st Century, State of the Art and Future Perspectives, Konstanz, Germany.
2004-Mar	Diagnosis and Management of Dental Caries in the 21 st Century. Presented to the Pittsburgh Academy of Dentistry as a 6 hr. lecture series, Pittsburgh, PA.
2004-May	Overview of the Role of Dental Plaque Biofilms in Dental Caries. Presented at Biocomplexity VI: Complex Behavior in Unicellular Organisms, Indiana University Bloomington, Bloomington IN.

GRANTS AND FELLOWSHIPS :

Federal/State Research Grant Support:

1. Sponsor: National Research Service Award for Individual Postdoctoral Fellows.
Title: "Interactions between Fluoride and Acquired Pellicles."
P.I.: D. T. Zero
April 1, 1979 - July 31, 1981
NIDR 1 F32 DE 05193
Total Award: \$33,207.00
2. Sponsor: National Institutes of Health/National Institute of Dental Research
Title: Glucan-Mediated Intraoral Demineralization by S. mutans
P.I.: D. T. Zero
January 1, 1986 - December 31, 1989
NIDR 1 R23 DE07793
Total Award: \$107,494.00
3. Sponsor: National Institutes of Health/National Institute of Dental Research
Title: Glucan-Mediated Intraoral Demineralization by S. mutans
P.I.: D. T. Zero
April 1, 1987 - December 31, 1990, Supplemented Award
NIDR 1 R29 DE07793
Total Award: \$334,132
4. Sponsor: National Institutes of Health/National Institute of Dental Research
Title: Oral Retention of Topical Fluoride and Clinical Efficacy
P.I.: D. T. Zero
July 1, 1988 - June 30, 1991
NIDR 1 RO1 DE08577
Total Award: \$452,590
5. Sponsor: National Institutes of Health/National Institute of Dental Research
Title: Concomitant Analysis of Carbohydrate Retention and Organic Acid Profiles of Plaque Samples by HPLC
P.I.: D. T. Zero
April 1989 - March 31, 1990
Biomedical Research Support Grant RR-05548
Total Award: \$4,000
6. Sponsor: National Institutes of Health/National Institute of Dental Research
Title: Effect of Growth Under Different pH Conditions on the Viability of Mutans Streptococci
P.I.: D.T. Zero
July 1990 - December 1990
Biomedical Research Support Grant RR-05548
Total Award: \$2,781

7. Sponsor: National Institutes of Health/National Institute of Dental Research
Title: Small Instrumentation Grant
P.I.: D. T. Zero
Sept. 1, 1992 - August 31, 1993
NIDR S15 DE10504-01
Total Award: \$6,186
8. Sponsor: National Institutes of Health/National Institute of Dental Research
Title: Oral Retention of Topical Fluoride and Clinical Efficacy
P.I.: D. T. Zero
Sept. 30, 1992 - Sept. 29, 1995
NIDR 1 RO1 DE08577-4
Total Award: \$654,605
9. Sponsor: National Institutes of Health/National Institute of Dental Research
Title: Clinical Comparison of Digital Imaging Fiber Optic Transillumination (DIFOTI™) with Radiological Imaging
P.I.: M. Elbaum (grant)
P.I.: D.T. Zero (subcontract)
March 1, 1997 - March 31, 1999
NIDR 2 R44 DE11507-02A1
Total Award: \$65,000 (EDC component)
10. Sponsor: Human Resources and Services Administration
Title: Innovative Rural Community Health AEGD Program
P.I.: D. T. Zero
July 1, 1997 - July 31, 2000
Total Award: \$206,000
11. Sponsor: ---
Title: Funding feasibility study for a mobile dental sealant unit
P.I.: D. T. Zero
August 1, 2000 – June 30, 2001
Total Award: \$---
12. Sponsor: ---
Title: Population based study to determine the oral health status of selected populations in Marion County
Co-PI: D. T. Zero
May 1, 2001 – April 30, 2002
Total Award: \$---
13. Sponsor: ---
Title: State-wide Mobile Dental Sealant Program
P.I.: D. T. Zero
Jan 1, 2002 – June 30, 2003
Total Award: \$---

14. Sponsor: National Institutes of Health/National Institute of Dental Research
Title: Oral Retention of Topical Fluoride and Clinical Efficacy
P.I. E. A. Martinez-Mier
Co-Invest.: D. T. Zero
July 01, 2002 – June 30, 2004
1 R21 DE 14716-1
Total Award: \$150,000

Commercial Support as P.I.:

Over \$6,000,000 in funding from numerous companies over the past 10 years.

PUBLICATIONS:

Education Articles

1. Zero DT. Introduction to the Conference on the Future Direction of Dental Postgraduate Education: A Tribute to Basil G. Bibby on his 90th Birthday. J Dent Educ 59: 546-547, 1995.

Book Chapters

1. Bibby BG, Huang CT, Brown JP, Zero DT, and Curzon MEJ. pH measurements of in vitro dental plaque. Foods, Nutrition and Dental Health, Proceeding of the Foods, Nutrition and Dental Health Conference, Vol. III, J. Hefferren and H. Koehler, eds. Chicago, Pathotox Publishers, 1981, pp. 93-104.
2. Curzon MEJ, Zero DT, Treasure PE, Eisenberg AD, Featherstone JDB. Evaluation of a sterilizable artificial mouth to study plaque pH and enamel demineralization. Foods, Nutrition and Dental Health Conference, Vol. IV, J. Hefferren, W. Ayer, H. Koehler, C. McEmery, eds. Chicago, American Dental Association Publishers, 1984, pp. 7-14.
3. Featherstone JDB, Zero DT. Laboratory and human studies to elucidate the mechanism of action of fluoride-containing dentifrices. In: Clinical and Biological Aspects of Dentifrices, Emberg, G. and Rolla G., editors. pp 41-50 Oxford University Press, 1992.
4. Zero DT. Adaptations in dental plaque. In: "Cariology for the Nineties". Bowen W.H. and Tabak, L., eds. University of Rochester Press, Rochester, pp. 333-350, 1993.
5. Zero DT. Dental Caries Process in Dental Clinics of North America - Cariology. Ed. J Wefel and K. Donly, W.B. Saunders, 1999 pp. 635-664.
6. Berkowitz RJ, Zero D, Edelstein B. Contributor: "Dental Caries" (chapter) in Twenty Common Problems in Preventive Health Care. Ed. D. Campos-Outcalt, McGraw-Hill, 2000 pp. 65-78.
7. Zero DT, Lussi A. Etiology of enamel erosion - intrinsic and extrinsic factors. (chapter) in Tooth Wear and Sensitivity. Ed. M. Addy, G. Embery, M. Edgar, R. Orchardson, Martin Dunitz, Ltd, 2000, pp. 121-139.

8. Zero D, Mol A, Sá Roriz C, Spoon M, Jacobs A, Keem S, Elbaum M. Caries detection using digital imaging fiber-optic transillumination (DIFOTI™) - A Preliminary Evaluation. In Early Detection of Dental Caries II. Ed. G Stookey, Indianapolis, Indiana University School of Dentistry, 2000, pp. 169-183.
9. Zero DT, González-Cabezas C, Fontana M. Oral factors to consider that influence restorative treatment. In The Changing Practice of Restorative Dentistry. Ed. S Duke, Indianapolis, Indiana University School of Dentistry, 2002, pp. 87-103.

Peer Reviewed Articles

1. Bibby BG, Huang CT, Zero DT, Mundorff SA, Little MF. Protective effect of milk against in vitro caries. J Dent Res 59:1565-1570, 1980.
2. Zero DT, Curzon MEJ, Zander HA. Physical and chemical effects of toothpastes on dental enamel. J Dent Res 61:451-455, 1982.
3. Zero DT, Van Houte J, Russo J. The intraoral effect on enamel demineralization of extracellular matrix material synthesized from sucrose by *Streptococcus mutans*. J Dent Res 65:918-923, 1986.
4. Zero DT, Van Houte J, Russo J. Enamel demineralization by acid produced from endogenous substrate in oral streptococci. Arch Oral Biol 31:229-234, 1986.
5. Bibby BG, Mundorff SA, Zero DT, Almekinder KJ. Oral food clearance and the pH of plaque and saliva. J Am Dent Assoc 112:333-337, 1986.
6. Zero DT, Fu J, Espeland MA, Featherstone JDB. Comparison of fluoride concentrations in unstimulated whole saliva following the use of a fluoride dentifrice and a fluoride rinse. J Dent Res 67:1257-1262, 1988.
7. Zero DT, Rahbek I, Fu J, Proskin HM, Featherstone JDB. Comparison of the iodide permeability test, the surface microhardness test and mineral dissolution of bovine enamel following acid challenge. Caries Res 24:181-188, 1990.
8. Meyerowitz C, Featherstone JDB, Billings RJ, Eisenberg AD, Fu J, Shariati M, Zero DT. Evaluation of 0.05 percent sodium fluoride mouth rinse in radiation-induced hyposalivation using an intra-oral model. J Dent Res 70:894-898, 1991.
9. Zero DT, Fu J, Anne KM, Cassata S, McCormack SM, Gwinner LM. An improved intraoral enamel demineralization test model for the study of dental caries. J Dent Res 71 (Spec Iss):871-878, 1992.
10. Featherstone JDB, Zero DT. An in situ model for simultaneous assessment of inhibition of demineralization and enhancement of remineralization. J Dent Res 71 (Spec Iss):804-810, 1992.
11. Zero DT, Raubertas RF, Pedersen AM, Fu J, Hayes A, Featherstone JDB. Studies of fluoride retention by the oral soft tissues after application of home-use topical fluorides. J Dent Res. 71:1546-1552, 1992.

12. Zero DT, Raubertas R F, Fu J, Pedersen AM, Hayes A L, Featherstone JDB. Fluoride concentration in plaque, whole saliva and ductal saliva after application of home-use topical fluorides. *J Dent Res*. 71:1768-1775, 1992.
13. Aguirre-Zero O, Zero DT, Proskin HM. Effect of chewing xylitol chewing gum on salivary flow rate and the acidogenic potential of dental plaque. *Caries Res* 27:55-59, 1993.
14. Harding AM, Zero DT, Featherstone JDB, McCormack SM, Shields CP, Proskin HM. Calcium fluoride formation on sound enamel using fluoride solutions with and without lactate. *Caries Res* 28:1-8, 1994.
15. Saunders RH, Davilla CE, Hayes AL, Fu J, Zero DT. The effectiveness of sponge-type intraoral applicators in applying topical fluorides in nursing home elderly. *Special Care* 14: 224-228, 1994.
16. McCormack SM, Maran CMD, Scott-Anne KM, Zero DT. A comparison of cell sediment and surface grown "test plaque" using scanning electron microscopy. *Scanning Microscopy* 9:207-214, 1995.
17. Zero DT. *In situ* caries models. *Adv Dent Res* 9:214-230, 1995.
18. Moss ME, Zero DT. An overview of caries risk assessment and its potential utility. *J Dent Educ* 59:932-940, 1995. Zero DT. Etiology of dental erosion - extrinsic factors. *Eur J Oral Sci* 104:162-177, 1996.
19. Zero DT. Etiology of dental erosion - extrinsic factors. *Eur J Oral Sci* 104:162-177, 1996.
20. Handelman S, Zero DT. Dr. Basil Bibby: Early fluoride investigator and intellectual provocateur. *J Dent Res* 76:1621-1624, 1997.
21. Zero D. Application of clinical models in remineralization research. *J Clin Dent* 10:74-85, 1999.
22. Lussi A, Zero D. External risk factors in childhood dental erosion. *Nederlandse Vereniging voor Kindertandheelkunde. Bohn Stafleu Van Loghum*: 7-12, 1999.
23. Lussi A, Kohler N, Zero D, Schaffner M, Megert B. Comparison of the erosive potential of different beverages in primary and permanent teeth using an *in vitro* model. *Eur J Oral Sci* 108: 110-114, 2000.
24. Hofstede MT, Ercoli C, Graser GN, Tallents, RH, Moss ME, Zero DT. The influence of metal surface finishing on porcelain porosity and bond strengths at the metal-ceramic interface. *J Prosth Dent* 84:309-17, 2000.
25. Zero D, Fontana M, Lennon ÁM. Clinical applications and outcomes of using indicators of risk in caries management. *J Dent Educ* 65:1126-1132, 2001.
26. Ando M, Schemehorn BR, Zero DT, Stookey GK. Influence of enamel thickness on quantification of mineral loss in enamel using laser-induced fluorescence. *Caries Res* 37:24-28, 2003.

27. Paes Leme AF, Machado Tabchoury CM, Zero DT, Cury JA. The effect of fluoride dentifrice and acidulated phosphate fluoride application on early artificial carious lesions. *Am J Dent* 16:91-95, 2003.
28. Owens JD, Dowsett SA, Eckert GJ, Zero DT, Kowolik, MJ. Partial-mouth assessment of periodontal disease in an adult population of the United States. *J Periodontol* 74:1206-1213, 2003
29. Lussi A, Jaeggi T, Zero D. Role of diet in the aetiology of dental erosion. *Caries Res* 38(suppl 1): 34-44, 2004.
30. Zero DT, Zhang JZ, Harper DS, Wu M, Kelly S, Waskow J, Hoffman M. The remineralizing effect of an essential oil fluoride mouthrinse in an intraoral caries test. *JADA* 135:231-237, 2004.
31. Ando M, Eckert GJ, Stookey GK, Zero DT. Effect of imaging geometry on evaluating natural white-spot lesions using quantitative light-induced fluorescence. *Caries Res* 38:39-44, 2004
32. Zero D. Sugars – The Arch Criminal? *Caries Res* 38:277-285 2004.

In Press

E. Angeles Martínez-Mier, Armando E. Soto-Rojas, Christine M. Buckley, Jorge Margineda, George K. Stookey, Domenick T. Zero. Evaluation of Fluoride Content in Mexican Salt. *Salud Publica Mex* 2004

Accepted

Martínez-Mier EA, Soto-Rojas AE, Margineda J, Buckley CM, Zero DT. Fluoride concentration of bottled water, tap water, and fluoridated salt from two communities in Mexico. *Int Dent J*, 2004

Submitted

Proprietary information deleted.

M.S. Thesis: Studies on the Acquired Pellicle and Enamel Dissolution.
University of Rochester, ---.

Letters

J. Dent. Res. 61:1300, 1982.
NYSDJ Nov.: 15, 1993

Abstracts

1. Handelman, S.L., Zero, D.T., and Herbison, R.J.: Simplified technique for measuring bacterial acid dissolution of hydroxyapatite. *J. Dent. Res.* 55B:B122, Abst 244 (IADR), 1976.
2. Bibby, B.G., Zero, D.T., and Deeney, M.: Experimental white spot development in vital teeth. *J. Dent. Res.* 57A:350, Abst 1102 (IADR), 1978.
3. Zero, D.T., Huang, C.T., and Bibby, B.G.: The effect of milk on in vitro caries. *J. Dent. Res.* 58A:424, Abst 1335 (IADR), 1979.

4. Bibby, B.G., Mundorff, S.A., and Zero, D.T.: Plaque pH and food clearance. Abst 42 (26th ORCA Congress, Stirling), 1979.
5. Zero, D.T., Miller, S.M., Marzocchi, G., and Curzon, M.E.J.: Effect of tea on the acidogenicity of dental plaque. J. Dent. Res. 61:181, Abst 26 (IADR), 1982.
6. Zero, D.T.: Intraoral effect of *S. mutans* produced extracellular material on enamel demineralization. Accepted for entry in the Hatton Awards Competition at the IADR. J. Dent. Res. 64:164, Abst H14 (IADR), 1985.
7. Zero, D.T., Van Houte, J., and Russo, J.: Effect of acid production from endogenous sources by *S. mutans* on enamel demineralization. J. Dent. Res. 64:347, Abst 1552 (IADR), 1985.
8. Zero, D.T., Van Houte, J., and Russo, J.: Evaluation of the "cariogenic" potential of dental plaque bacteria with an intraoral enamel demineralization test. J. Dent. Res. 64:346, Abst 1548 (IADR), 1985.
9. Zero, D.T., Fu, J., and Featherstone, J.D.B.: Salivary fluoride concentration following use of F-toothpaste and rinse. J. Dent. Res. 66:140, Abst 268 (IADR), 1987.
10. Zero, D.T., Campbell, J.L., and Yang, Z.: The intraoral effect of plaque thickness and packing density on enamel demineralization. Caries Res. 22:96, Abst 20 (34th ORCA Congress, Budapest), 1987.
11. Zero, D.T., Campbell, J.L., Yang, Z., and Barros, S.: Intraoral comparison of *S. sobrinus* 6715-13 and its insoluble glucan synthesis-defective mutant. J. Dent. Res. 67:144, Abst 258 (IADR), 1988.
12. Meyerowitz, C. and Zero, D.T.: Plaque pH depression and recovery in hyposalivatory subjects. J. Dent. Res. 67:279, Abst 1331 (IADR), 1988.
13. Zero, D.T., Featherstone, J.D.B., Fu, J., Pedersen, A., and Billings, R.J.: Saliva and plaque 24 hour profiles after topical treatment. Joint IADR/ORCA International Symposium - Fluoride Mechanism of Action and Recommendations for Use. J. Dent Res. 69:828, 1990.
14. Zero, D.T., Cassata, S., and Anne, K.: Evaluation of intraoral enamel demineralization using the surface microhardness test. J. Dent. Res. 68:1011, Abst. 1157 (IADR), 1989.
15. Rahbek, I., Zero, D.T., Fu, J., Proskin, H.M. and Featherstone, J.D.B.: Relationships among iodide permeability, surface microhardness and mineral loss. J. Dent. Res. 68:981, Abst. 918 (IADR), 1989.
16. Fu, J., Zero, D.T., Cassata, S. and Anne, K.: Intraoral pH and organic acid profiles of *S. mutans* test plaque. J. Dent. Res. 68:906, Abst. 314 (IADR), 1989.
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18. Zero, D.T., Anne, K.M., Cavaretta, G.M. and Fu, J.: Effect of growth at low pH on virulence of *S. mutans*. J. Dent. Res. 69:318, Abst. 1680 (IADR), 1990.

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22. Maran, C.M.D., Zero, D.T., McCormack, S.M., and Anne, K.M.: SEM Comparison of cell sediments and surface grown "test plaque". J. Dent. Res. 70:338, Abst. 586 (IADR), 1991.
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28. Satou, N., Zero, D.T., Satou, J., Fu, J., and Shintani, H.: Glycolytic activity of streptococci at different pH conditions in a chemostat. J Dent Res. 71:1054, Abst. 130, 1992.
29. Zero, D.T., Pedersen, A.M., Glena, R.E., Fu, J., Hayes, A.L. and Proskin, H.M.: Fluoride dentifrice dose-response using an intraoral model. J Dent Res. 71:185, Abst. 640, 1992.
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35. Zero, D., Fu, J., Hayes, A., Scott-Anne, K., and Proskin, H.: Evaluation of enamel demineralization inhibitors using an intraoral caries model. *J Dent Res* 73:338, Abst. 1888, 1994.
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47. Cury JA, Peres PEC, Fu J and Zero DT. Effect of PMSF on fluoride uptake and remineralization of dental enamel. *J Dent Res* 77 (Spec Iss): 215, Abst. 877, 1998.
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50. Zero D, Fu J, Hayes A, Scott-Anne K, Glenda R, Proskin H. Anticaries efficacy of calcium phosphate dentifrice under different *in situ* model conditions. J Dent Res 78 (Spec Iss): 172, Abst. 529, 1999.
51. Perinpanayagam H, Czach S, Zero D. Evaluation of *in situ* root caries using surface microhardness testing. J Dent Res 78 (Spec Iss): 496, Abst. 3125, 1999.
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53. Mao Y, Malmstrom H, Zero DT, Moss M, Li H. Survey of halitosis in dental patients. J Dent Res 78 (Spec Iss): 250, Abst. 1160, 1999.
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56. Zero DT, Cavaretta Siegel G, Fu J, Li H. Effect of pyrophosphate on fluoride enhanced remineralization after an erosive challenge. Caries Res 34: 344, Abst. 105, 2000.
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